

In the Claims:

Please amend claim 4 as follows:

1. (Original) A treatment for a patient suffering from a brain or spinal cord injury or neurodegenerative disease comprising the steps of: intravascular administration or transplanting of cultured bone marrow cells into the brain or spinal cord of the patient in need; and generating new neurons in the brain of the patient.

2. (Original) A method of activating the differentiation of neural cells in an injured brain or spinal cord comprising the steps of: transplanting bone marrow cells adjacent to the injured brain cells; and activating the endogenous central nervous system stem cells to differentiate into neurons.

3. (Original) A method of treating injured brain or spinal cord cells comprising the steps of: transplanting cultured bone marrow cells near the injured brain cells; and generating new neurons at the location of transplantation or of intravascular (intraarterial, intravenous) injection of cultured bone marrow cells.

4. (Currently Amended) ~~A~~The method of treating injured brain or spinal cord in a patient by injecting or transplanting a composite of mesenchymal stem cells (MSCs)~~MSC~~ and neurospheres into said patient.